

Plant-derived Molecules and Genetic
Sequences Encoding Same and Uses
Therefor

Anderson, et al.

Atty Docket 18-01

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NaPdf1

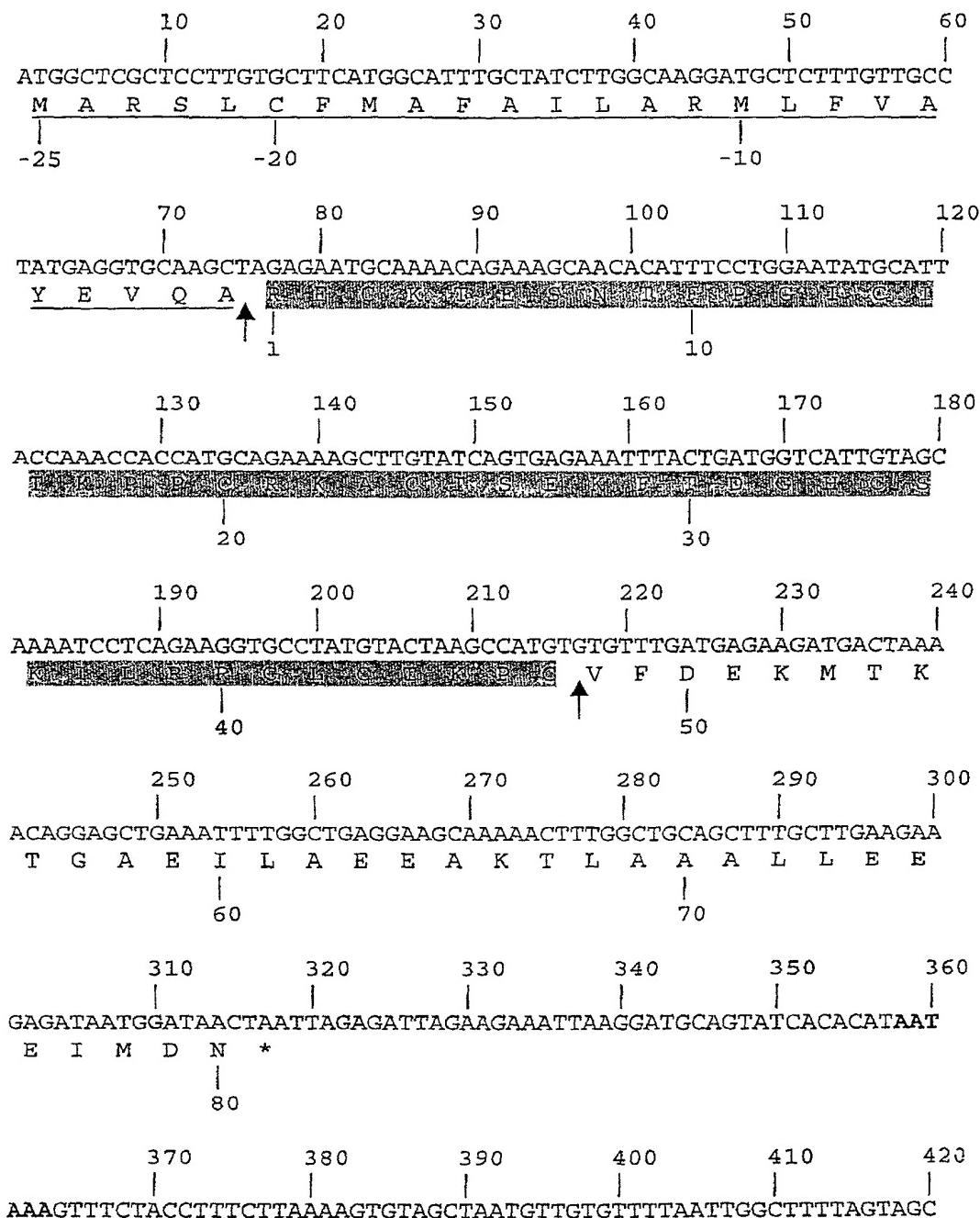


Figure 1

Plant-derived Molecules and Genetic
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430 440 450 460 470 480
CTTTTATTACACTTTAAATAAGTGCGGCACTTCATCCTTGTGCAATCTTGCACTAAGT
490 500 510 520 530 540
TTATTTGTGTACTTTAATGAAAATGACCTTCTATGGTCTTGGTTAAAAAAAAAAAAAA
541
|
A

Figure 1 continued

Plant-derived Molecules and Genetic
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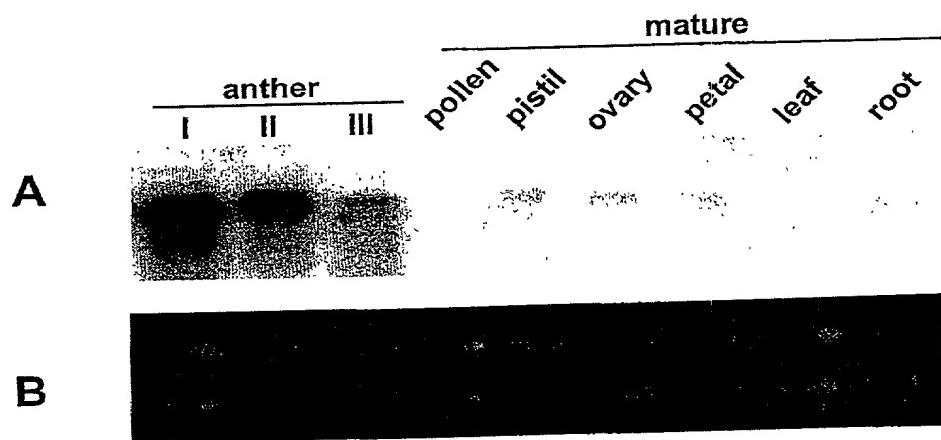


Figure 2

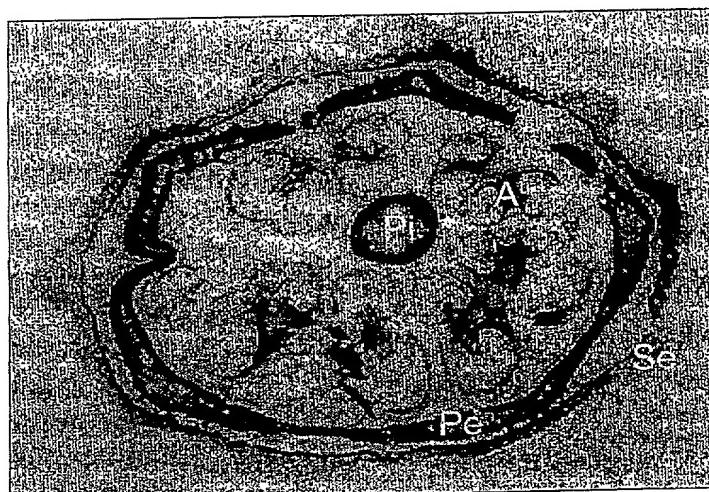
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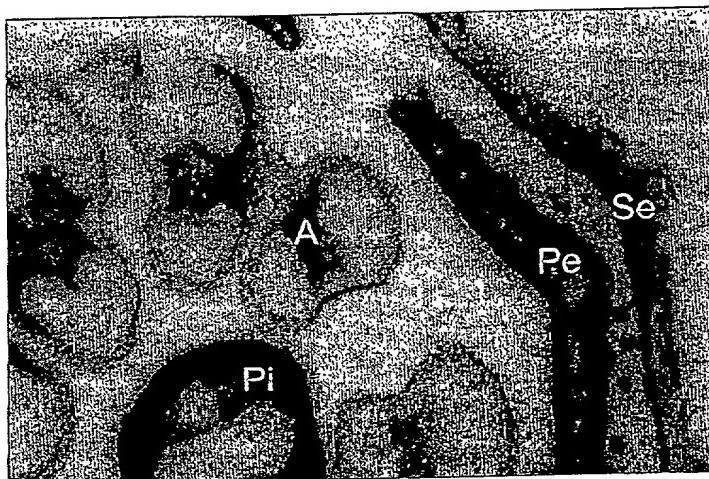
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A



B



C

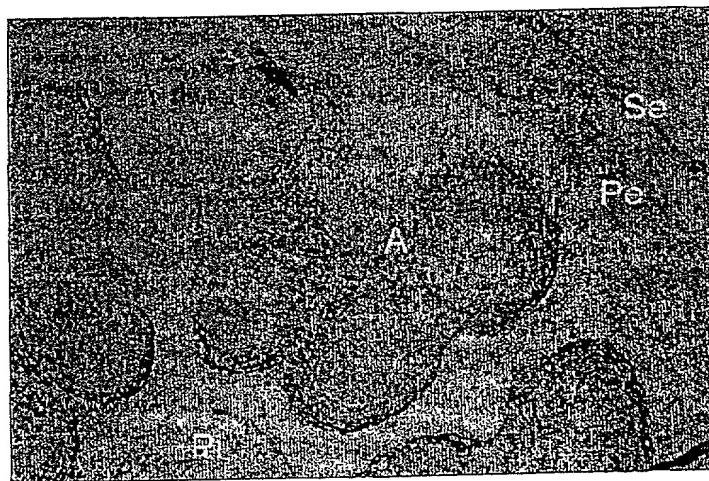


Figure 3

Plant-derived Molecules and Genetic
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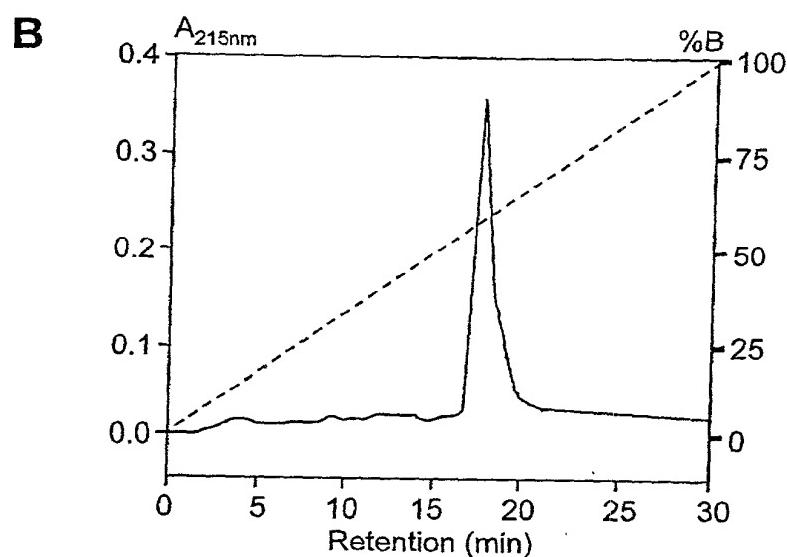
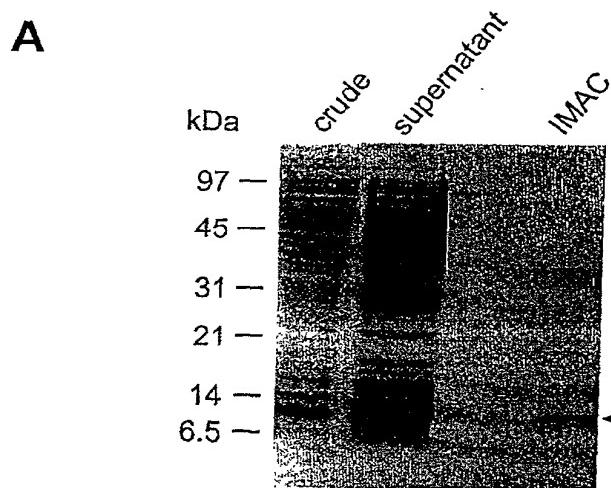


Figure 4

Plant-derived Molecules and Genetic
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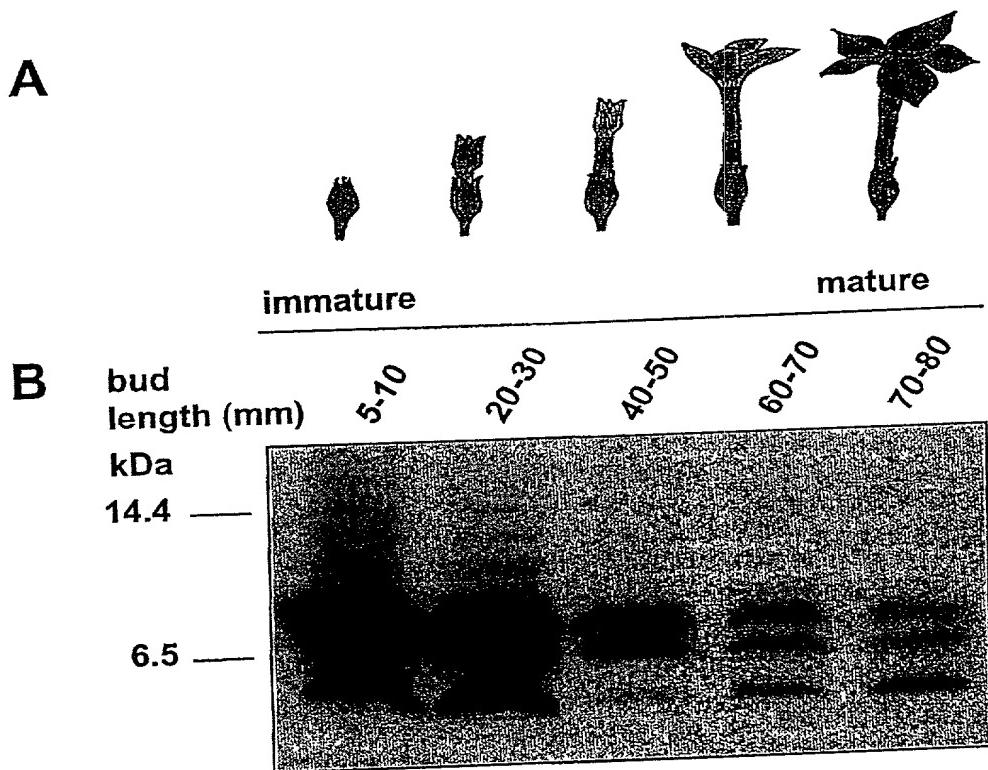


Figure 5

Plant-derived Molecules and Genetic
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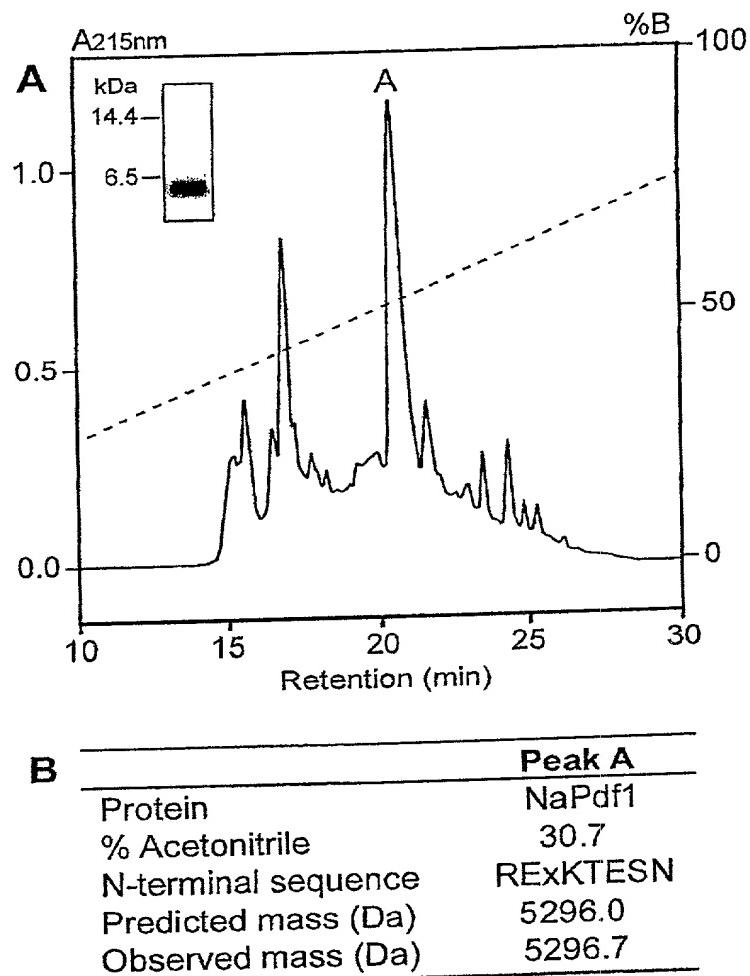


Figure 6

Plant-derived Molecules and Genetic
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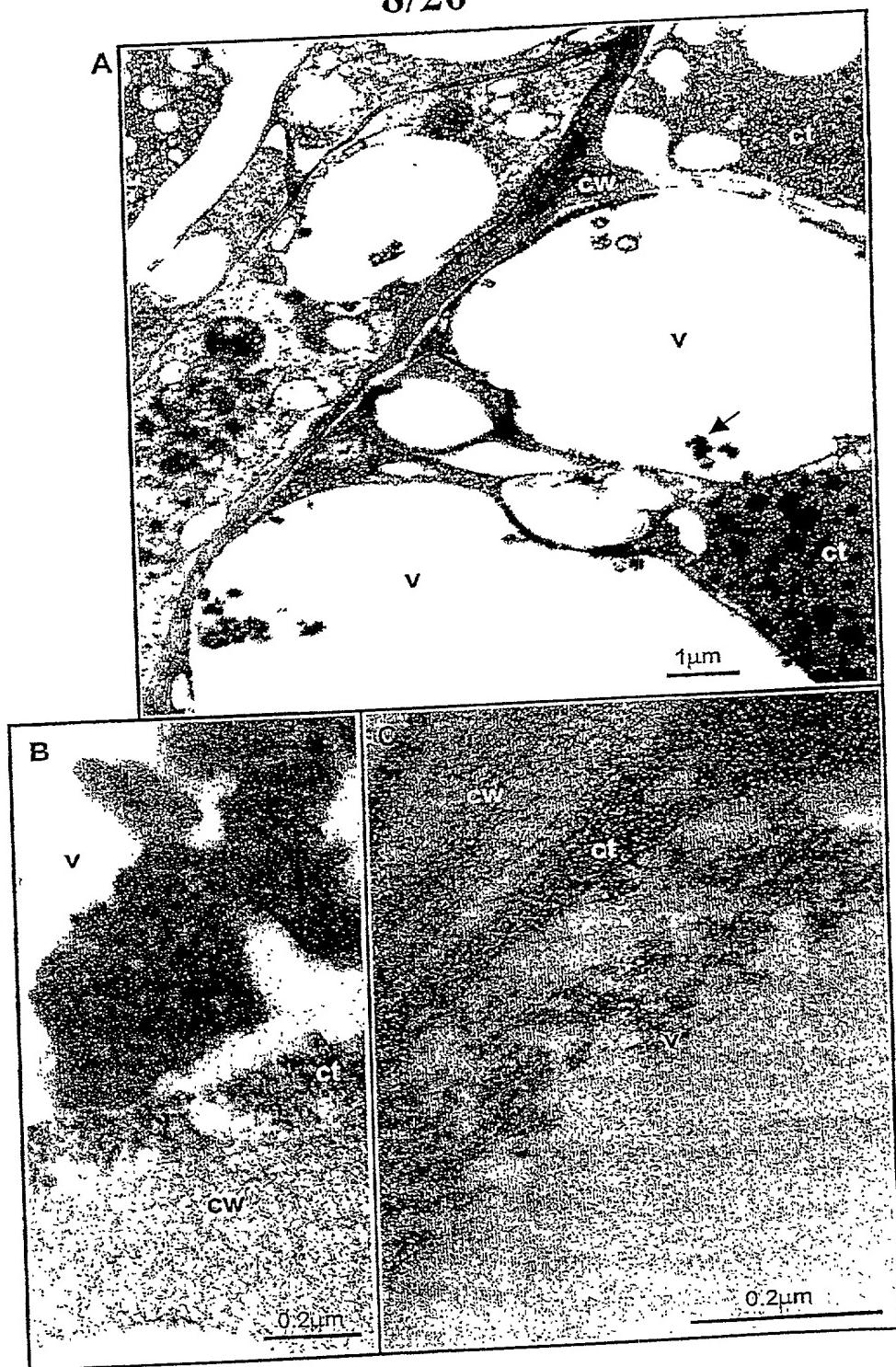


Figure 7

Plant-derived Molecules and Genetic
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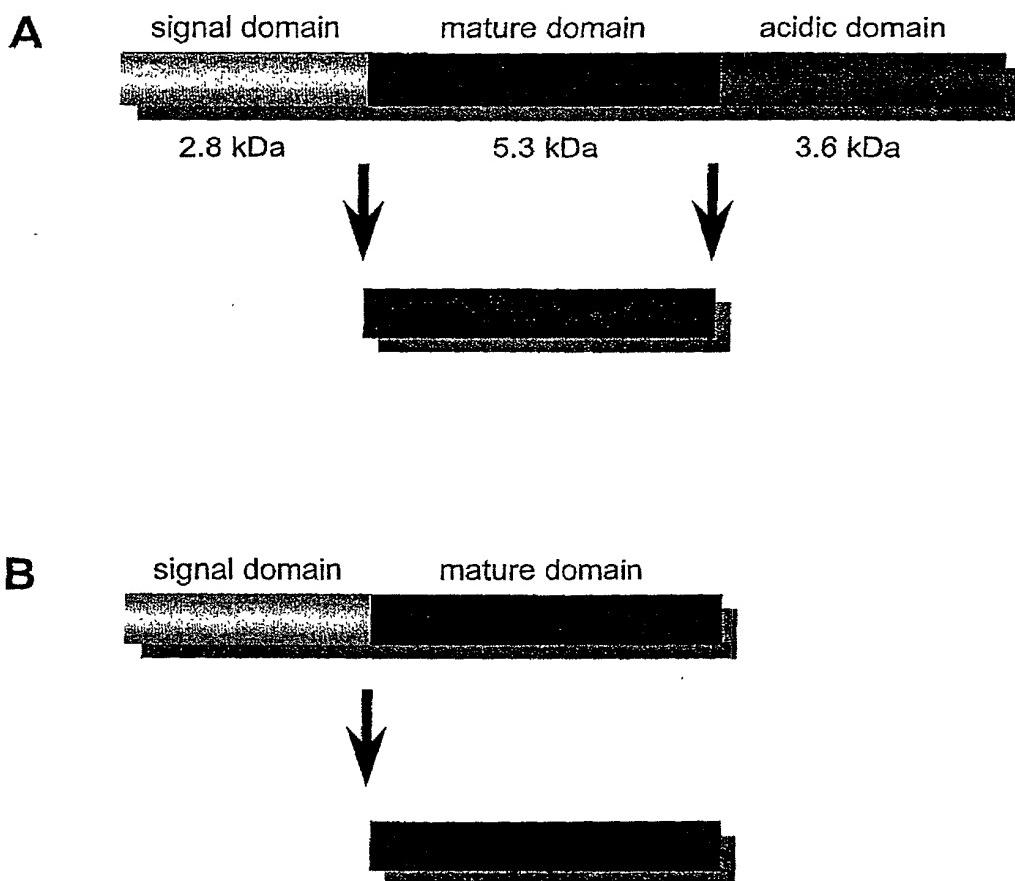


Figure 8

Plant-derived Molecules and Genetic
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NaPdf1	(<400>18)	MARSLCFMAFAILAMMLFVAYEV-----QA-RECKTESNTFPGICITKPP
FST	(<400>20)	MARSLCFMAFAILAMMLFVAYEV-----QA-RECKTESNTFPGICITKPP
TTP3	(<400>21)	MARSIFFMAFLVLAMMLFVTYEV-----EAQQICKAPSQTFPGLCFMDSS
NTS13	(<400>22)	MANSMRFFATVLLIALLVTATEMGPMTIAEA-RTCESQSHRFKGPCSRDSN
PPT	(<400>23)	MGRSIRLFATFFLIAMLFLSTEMGPMTSAEA-RTCESQSHRFHGTCVRESN
ATPIIIa	(<400>24)	MKLSMRLISAVLIMFMIFVATGMGPVT-VEA-RTCESQSHRFKGTCVSASN
NaPdf1		CRKACISEKFTDGHC SKILRRCLCTKPCVFDEKMTKTGAELAEEAKTLAAALLEEEIMDN
FST		CRKACISEKFTDGHC SKLRRCLCTKPCVFDEKMIKTGAETLVEEAKTLAAALLEEEIMDN
TTP3		CRKYCIKEKFTGGHCSKLQRKCLCTKPCVFDKISSEVKA-TLGEEAKTLSEVVLEEEIMME
NTS13		CATVCLTEGFSGGRCPWIPPRCFCTSPC-----
PPT		CASVCQTEGFIGGNCRAFRRRCFCTRNC-----
ATPIIIa		CANVCHNEGFVGGNCRGFRRRCFCTRHC-----

Figure 9

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<i>Nicotiana alata</i>	<i>NaPaf1</i>	-REC-KTESNTPP-GICITKPPCRKACIS-EKFTDGH-CSK--ILRCLCTKPC- FST	(<400>8)
<i>Nicotiana tabacum</i>		-REC-KTESNTPP-GICITKPPCRKACIS-EKFTDGH-CSK--ILRCLCTKPC- (<400>25)	
<i>Lycopersicon esculentum</i>	<i>TPP3</i>	-QIC-KAPSQTTP-GLCFMDSSCRKYC1-EKFTGHH-CSK--LQRCLCTKPC- (<400>26)	
<i>Solanum tuberosum</i>	<i>P322</i>	-RHC-ESLSHRFK-GPCTRDNSCAASVCT-ERFSGGN-CHG-F-RRRCFCTRNC- (<400>27)	
<i>Petunia inflata</i>	<i>PPT</i>	-RTC-ESQSHRFH-GTCVRESNCAASVCT-EGFIGNN-CRA-F-RRRCFCTRNC- (<400>28)	
<i>Glycine max</i>	<i>SE60</i>	-RVC-ESQSHGFH-GLCNRDHNCAVCRNE-G-FSGGRCKG-F-RRRCFCTRIC- (<400>29)	
<i>Hordeum vulgare</i>	<i>Y1-H</i>	-RIC-RRRSAGFK-GPCVSNKNCQAQVCMQE-G-WGGGNCDG--PLRCKCMRRC- (<400>30)	
<i>Sinapis alba</i>	<i>M2A</i>	PQKLC-QRPSGTWS-GVCGNNNACRNQCNLKEARHGS-CNYVFPAAHKCICYFPC- PRH-ST1	
<i>Solanum tuberosum</i>		-RNC-ESLSHRFK-GPCTRDNSNC-----PQKLC-ERPSGTWS-GVCGNNNACKNQCNLKEARHGS-CNYVFPAAHKCICYFPC- (<400>31)	
<i>Raphanus sativus</i>	<i>Rs-AFP1</i>	PQKLC-QRPSGTWS-GVCGNNNACKNQCNLKEARHGS-CNYVFPAAHKCICYFPC- (<400>32)	
<i>Raphanus sativus</i>	<i>Rs-AFP2</i>	PQKLC-ERPSGTWS-GVCGNNNACKNQCNLKEARHGS-CNYVFPAAHKCICYFPC- (<400>33)	
<i>Sinapis alba</i>	<i>M1</i>	PQKLC-ERPSGTWS-GVCGNNNACKNQCNLKEARHGS-CNYVFPAAHKCICYFPC- (<400>34)	
<i>Sinapis alba</i>	<i>M2B</i>	PQKLC-ARPSGTWSSGNCRNNNACRNFECIKLEKSRHGS-CNIPFPSNKCICYFPC- (<400>35)	
<i>Triticum turgidum</i>	<i>Y1-P</i>	-KIC-RRRSAGFK-GPCMSNKNCQAQVCMQE-G-WGGGNCDG--PFRCKCTROC- (<400>36)	
<i>Triticum turgidum</i>	<i>Y2-P</i>	-KVC-RQRSAGFK-GPCVSDKNCQAQVCLQE-G-WGGGNCDG--PFRCKCTROC- 10kDa	
<i>Vigna unguiculata</i>		-KTC-ENLVDTYR-GPCFTTGSDDHCKNKKEHLLSGR-CR--DDVRCWCTRNC- (<400>37)	
<i>Sorghum bicolor</i>	<i>Sra2</i>	-RVC-MGKSAGFK-GLCMRDQNCAQVCLQE-G-WGGGNCDG--VMRQCKCIRQCW (<400>38)	
<i>Sorghum bicolor</i>	<i>Sra3</i>	-RVC-RRRSAGFK-GLCMSDHNCQAQVCLQE-G-WGGGNCDG--VIRQCKCIRQCW (<400>39)	
<i>Dalia merckii</i>	<i>Dm-AMP2</i>	-EVC-EKASKTWS-GNCGNIGHC-----RVC-MKGSOQHS-FPCISDRLOSNECVKEEGWTAGYCH-- (<400>40)	
<i>Sorghum bicolor</i>	<i>Sta1</i>	-NTC-ENLAGSYK-GVCF--GGCDRHCRTOEGALSGR-CR--DDFRCWCTRNC- (<400>41)	
<i>Pisum sativum</i>	<i>P1230</i>	-NTC-ENLAGSYK-GVCF--GGCDRHCRTOEGALSGR-CR--DDFRCWCTRNC- (<400>42)	
<i>Aesculus hippocastanum</i>	<i>Ab-AMP1</i>	--JCNERPSQTWS-GNCGNTAHCDKQCDWEKAASHGA-CHKRENHWKCFYCYNCC- (<400>43)	
<i>Heuchera sanguinea</i>	<i>Hs-AFP1</i>	-KLC-DVPSGTWS-GHCGSSSKCSQQCICDRHTFAYGGACHYQFPSVKCFCKRQC- (<400>44)	
<i>Dalia merckii</i>	<i>Dm-AMP1</i>	-ELC-EKASKTWS-GNCGNIGHDNOCKSWEZAAHGA-CHVRNGKHMCFCYFNC- (<400>45)	
<i>Pi sum sativum</i>	<i>P139</i>	-NTC-EHLADTYR-GVCFNTNASODDHCKNKZHLSGT-CH---DWKCFCTQNC- (<400>46)	
<i>Clitoria ternatea</i>	<i>Ct-AMP1</i>	-NLIC-ERASLTWT-GNCGNIGHDQCRNWESAKHGA-CHKRGN-WKCFCYFNC- (<400>47)	
			(<400>48)
			(<400>49)

Figure 10

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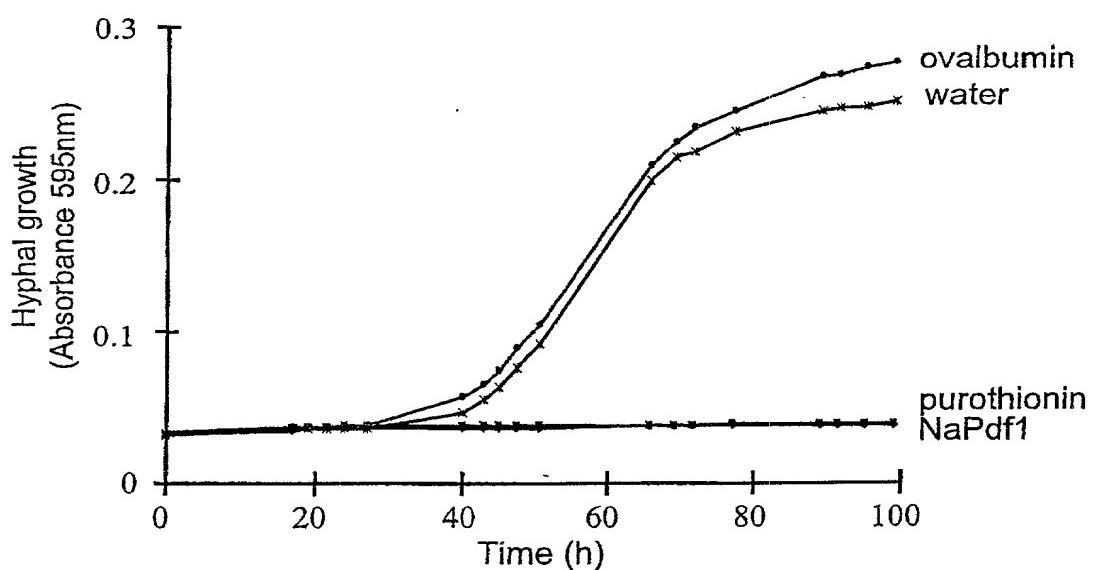


Figure 11

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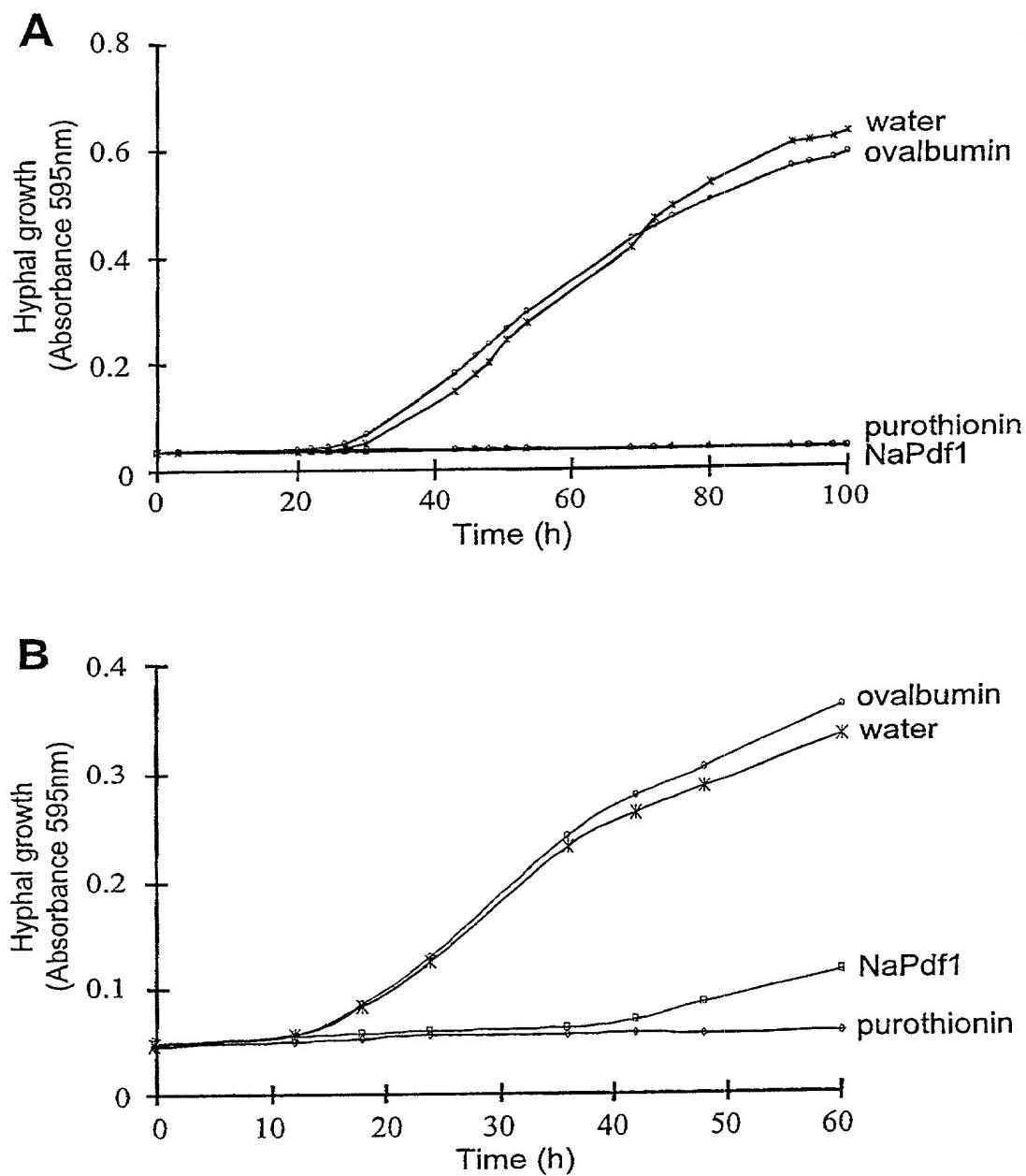


Figure 12

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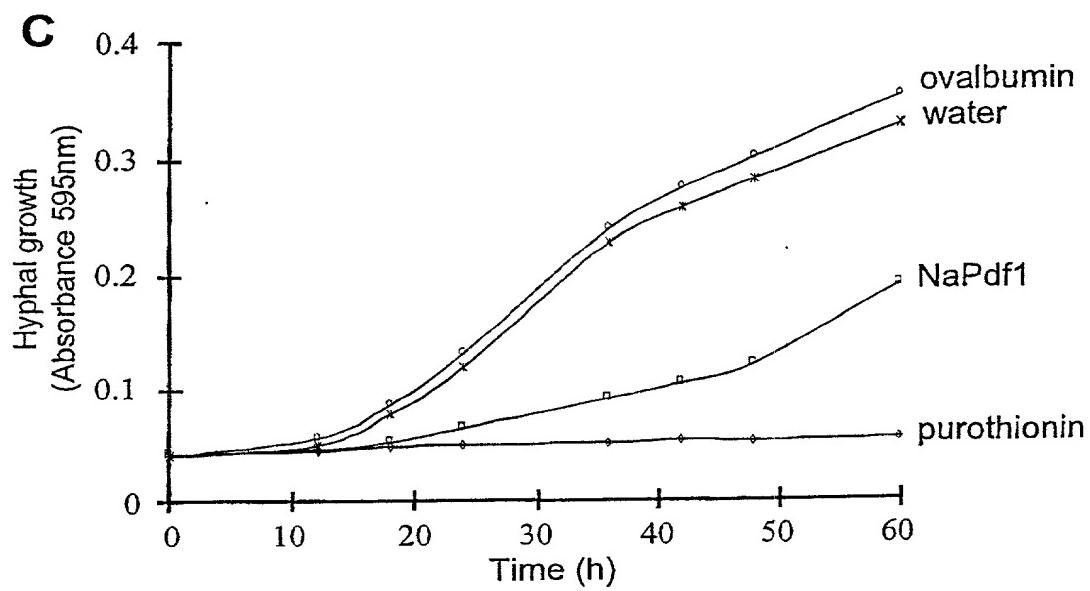


Figure 12 continued

Plant-derived Molecules and Genetic
Sequences Encoding Same and Uses
Therefor

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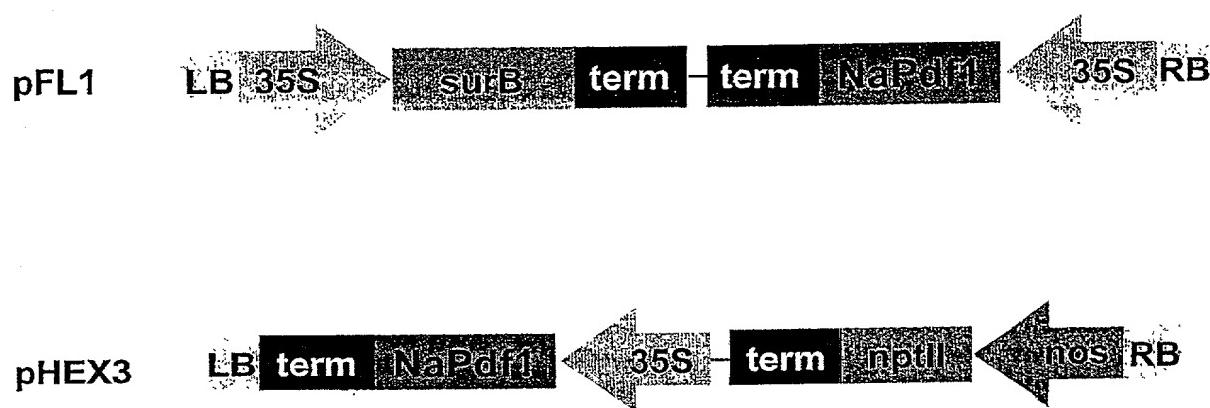


Figure 13

Plant-derived Molecules and Genetic
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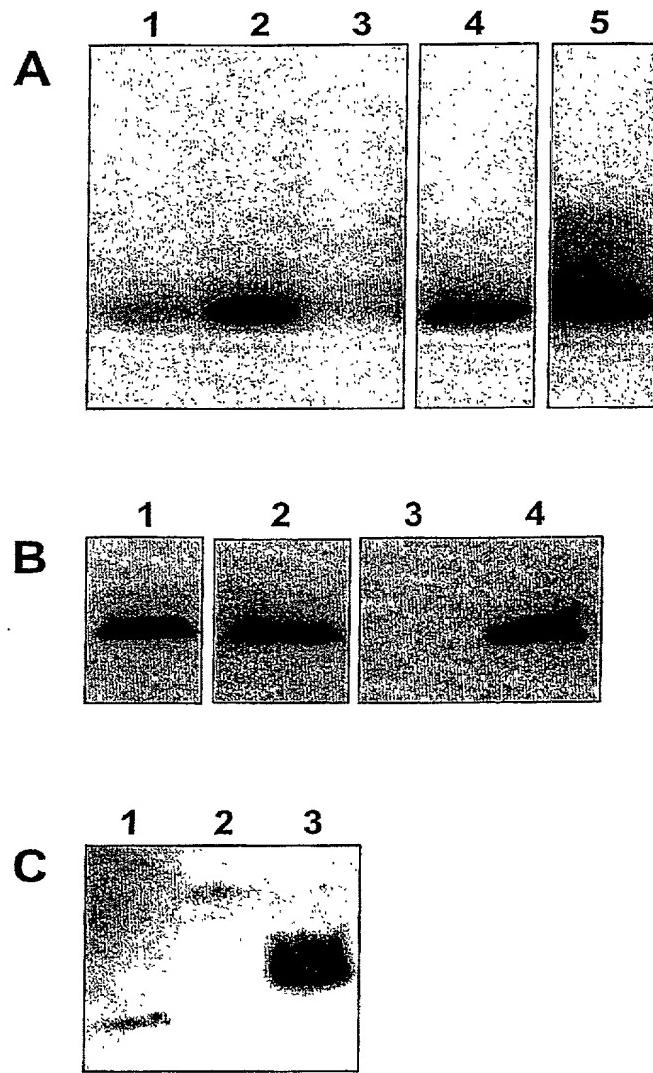


Figure 14

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H. punctigera bioassay with transgenic tobacco

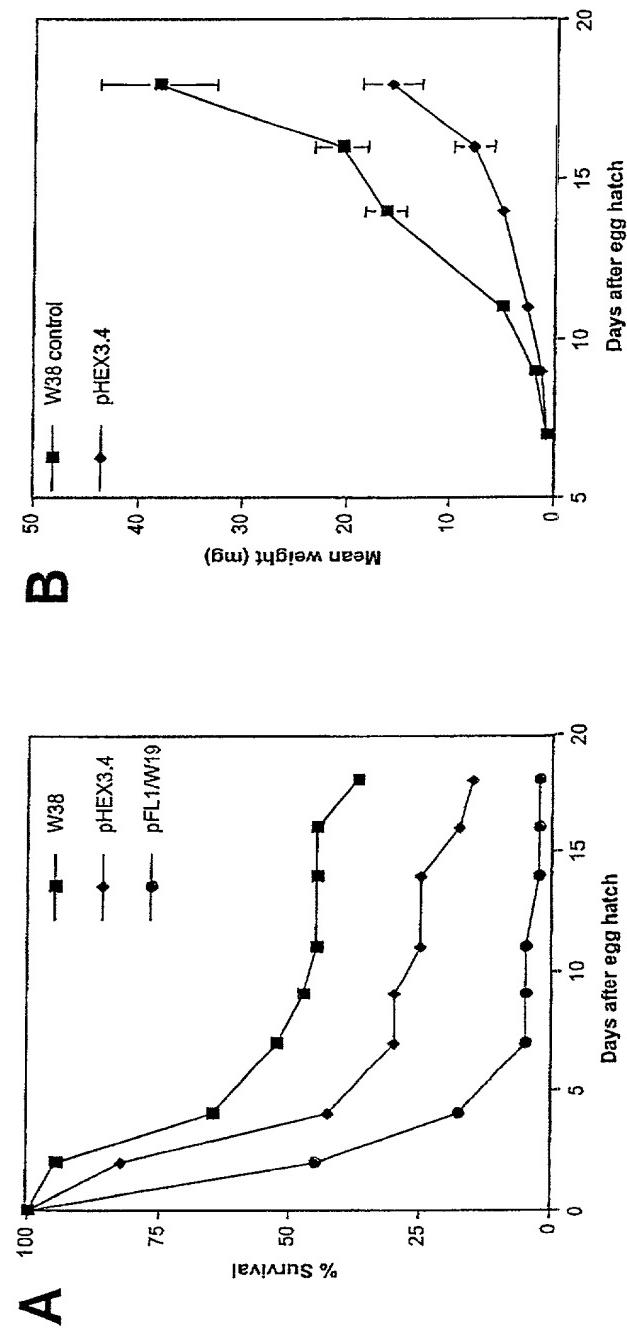


Figure 15

Plant-derived Molecules and Genetic
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H. armigera bioassay with transgenic tobacco

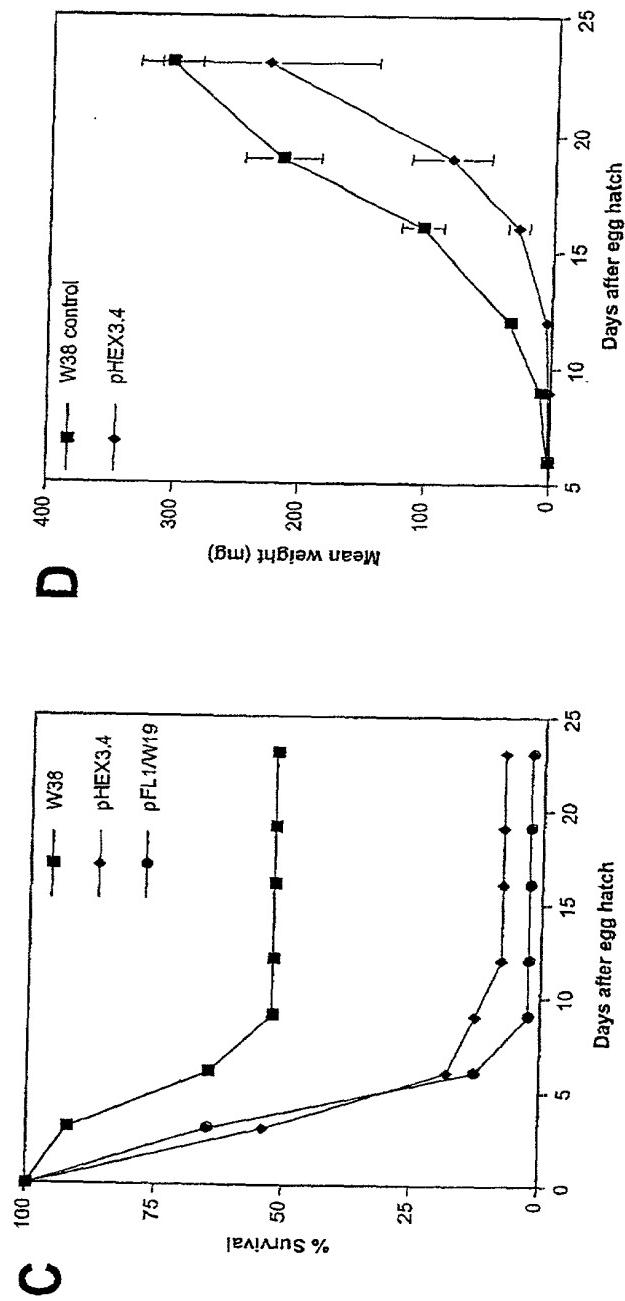


Figure 15 continued

Plant-derived Molecules and Genetic
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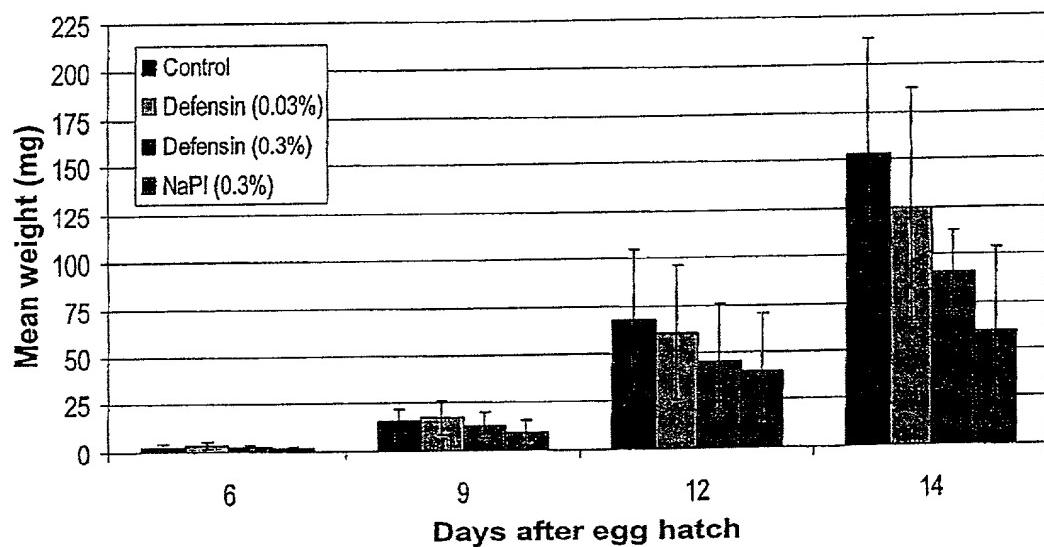


Figure 16

Plant-derived Molecules and Genetic
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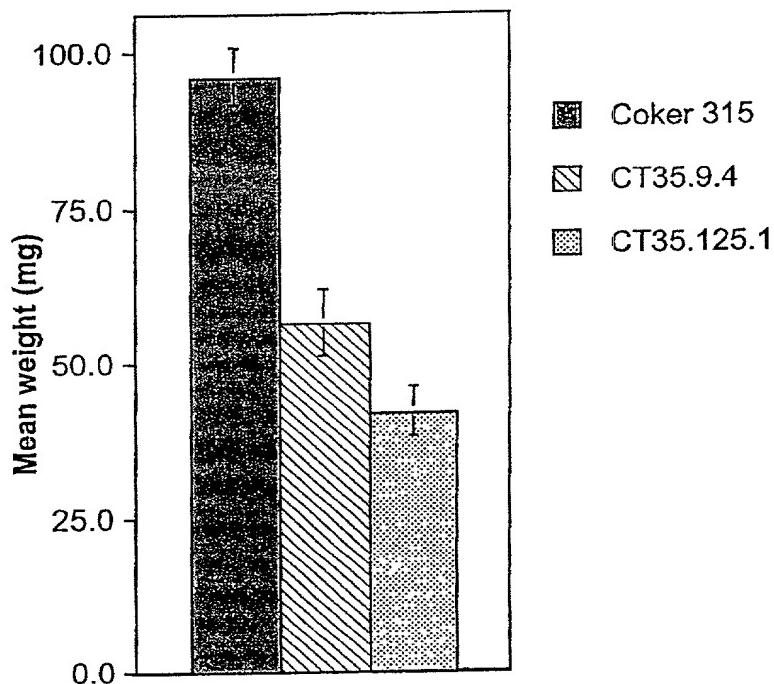


Figure 17